



#13  
3/1/02

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/424,686  
Source: 1652  
Date Processed by STIC: 2/14/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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2011 South Clark Place, Arlington, VA 22202
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Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

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1652

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,686

DATE: 02/14/2002

TIME: 15:18:45

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\02142002\I424686.raw

Does Not Comply  
Corrected Diskette Needed

4 <110> APPLICANT: Hagen, Gustav  
5 Siegmund, Hans-Ulrich  
6 Weichel, Walter  
7 Wick, Maresa  
8 Zubov, Dmitry  
10 <120> TITLE OF INVENTION: Human Catalytic Telomerase Sub-Unit and its Diagnostic and  
Therapeutic  
11 Use  
13 <130> FILE REFERENCE: Bayer 10,203  
15 <140> CURRENT APPLICATION NUMBER: US 09/424,686  
17 <141> CURRENT FILING DATE: 1999-11-29  
19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03468  
21 <151> PRIOR FILING DATE: 1998-06-09  
23 <160> NUMBER OF SEQ ID NOS: 7  
25 <170> SOFTWARE: Microsoft Word

## ERRORED SEQUENCES

171 <210> SEQ ID NO: 2  
172 <211> LENGTH: 1132  
E--> 173 <212> TYPE: amino acid  
174 <213> ORGANISM: Homo sapiens  
176 <400> SEQUENCE: 2  
177 Met Pro Arg Ala Pro Arg Cys Arg Ala Val Arg Ser Leu Leu Arg Ser  
178 1 5 10 15  
180 His Tyr Arg Glu Val Leu Pro Leu Ala Thr Phe Val Arg Arg Leu Gly  
181 20 25 30  
183 Pro Gln Gly Trp Arg Leu Val Gln Arg Gly Asp Pro Ala Ala Phe Arg  
184 35 40 45  
186 Ala Leu Val Ala Gln Cys Leu Val Cys Val Pro Trp Asp Ala Arg Pro  
187 50 55 60  
189 Pro Pro Ala Ala Pro Ser Phe Arg Gln Val Ser Cys Leu Lys Glu Leu  
190 65 70 75 80  
192 Val Ala Arg Val Leu Gln Arg Leu Cys Glu Arg Gly Ala Lys Asn Val  
193 85 90 95  
195 Leu Ala Phe Gly Phe Ala Leu Leu Asp Gly Ala Arg Gly Gly Pro Pro  
196 100 105 110  
198 Glu Ala Phe Thr Thr Ser Val Arg Ser Tyr Leu Pro Asn Thr Val Thr  
199 115 120 125  
201 Asp Ala Leu Arg Gly Ser Gly Ala Trp Gly Leu Leu Leu Arg Arg Val  
202 130 135 140  
204 Gly Asp Asp Val Leu Val His Leu Leu Ala Arg Cys Ala Leu Phe Val  
205 145 150 155 160

*invalid response must be  
PRT for proteins.*

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Input Set : A:\pto.vsk.txt

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207   Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro Leu Tyr
208               165               170               175
210   Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala Ser Gly
211               180               185               190
213   Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser Val Arg
214               195               200               205
216   Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg Arg Arg
217       210               215               220
219   Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro Arg Arg
220       225               230               235               240
222   Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly Ser Trp
223               245               250               255
225   Ala His Pro Gly Arg Thr Arg Gly Pro Ser Asp Arg Gly Phe Cys Val
226               260               265               270
228   Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu Gly Ala
229       275               280               285
231   Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln His His
232       290               295               300
234   Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp Thr Pro
235       305               310               315               320
237   Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser Ser Gly
238               325               330               335
240   Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu Arg Pro
241       340               345               350
243   Ser Leu Thr Gly Ala Arg Arg Leu Val Glu Thr Ile Phe Leu Gly Ser
244       355               360               365
246   Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu Pro Gln
247       370               375               380
249   Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly Asn His
250       385               390               395               400
252   Ala Gln Cys Pro Tyr Gly Val Leu Leu Lys Thr His Cys Pro Leu Arg
253               405               410               415
255   Ala Ala Val Thr Pro Ala Ala Gly Val Cys Ala Arg Glu Lys Pro Gln
256       420               425               430
258   Gly Ser Val Ala Ala Pro Glu Glu Asp Thr Asp Pro Arg Arg Leu
259       435               440               445
261   Val Gln Leu Leu Arg Gln His Ser Ser Pro Trp Gln Val Tyr Gly Phe
262       450               455               460
264   Val Arg Ala Cys Leu Arg Arg Leu Val Pro Pro Gly Leu Trp Gly Ser
265       465               470               475               480
267   Arg His Asn Glu Arg Arg Phe Leu Arg Asn Thr Lys Lys Phe Ile Ser
268               485               490               495
270   Leu Gly Lys His Ala Lys Leu Ser Leu Gln Glu Leu Thr Trp Lys Met
271       500               505               510
273   Ser Val Arg Asp Cys Ala Trp Leu Arg Arg Ser Pro Gly Val Gly Cys
274       515               520               525
276   Val Pro Ala Ala Glu His Arg Leu Arg Glu Glu Ile Leu Ala Lys Phe
277       530               535               540
279   Leu His Trp Leu Met Ser Val Tyr Val Val Glu Leu Leu Arg Ser Phe

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280	545	550	555	560
282	Phe Tyr Val Thr Glu Thr Thr Phe Gln Lys Asn Arg Leu Phe Phe Tyr			
283	565	570	575	
285	Arg Lys Ser Val Trp Ser Lys Leu Gln Ser Ile Gly Ile Arg Gln His			
286	580	585	590	
288	Leu Lys Arg Val Gln Leu Arg Glu Leu Ser Glu Ala Glu Val Arg Gln			
289	595	600	605	
291	His Arg Glu Ala Arg Pro Ala Leu Leu Thr Ser Arg Leu Arg Phe Ile			
292	610	615	620	
294	Pro Lys Pro Asp Gly Leu Arg Pro Ile Val Asn Met Asp Tyr Val Val			
295	625	630	635	640
297	Gly Ala Arg Thr Phe Arg Arg Glu Lys Arg Ala Glu Arg Leu Thr Ser			
298	645	650	655	
300	Arg Val Lys Ala Leu Phe Ser Val Leu Asn Tyr Glu Arg Ala Arg Arg			
301	660	665	670	
303	Pro Gly Leu Leu Gly Ala Ser Val Leu Gly Leu Asp Asp Ile His Arg			
304	675	680	685	
306	Ala Trp Arg Thr Phe Val Leu Arg Val Arg Ala Gln Asp Pro Pro Pro			
307	690	695	700	
309	Glu Leu Tyr Phe Val Lys Val Asp Val Thr Gly Ala Tyr Asp Thr Ile			
310	705	710	715	720
312	Pro Gln Asp Arg Leu Thr Glu Val Ile Ala Ser Ile Ile Lys Pro Gln			
313	725	730	735	
315	Asn Thr Tyr Cys Val Arg Arg Tyr Ala Val Val Gln Lys Ala Ala His			
316	740	745	750	
318	Gly His Val Arg Lys Ala Phe Lys Ser His Val Ser Thr Leu Thr Asp			
319	755	760	765	
321	Leu Gln Pro Tyr Met Arg Gln Phe Val Ala His Leu Gln Glu Thr Ser			
322	770	775	780	
324	Pro Leu Arg Asp Ala Val Val Ile Glu Gln Ser Ser Ser Leu Asn Glu			
325	785	790	795	800
327	Ala Ser Ser Gly Leu Phe Asp Val Phe Leu Arg Phe Met Cys His His			
328	805	810	815	
330	Ala Val Arg Ile Arg Gly Lys Ser Tyr Val Gln Cys Gln Gly Ile Pro			
331	820	825	830	
333	Gln Gly Ser Ile Leu Ser Thr Leu Leu Cys Ser Leu Cys Tyr Gly Asp			
334	835	840	845	
336	Met Glu Asn Lys Leu Phe Ala Gly Ile Arg Arg Asp Gly Leu Leu Leu			
337	850	855	860	
339	Arg Leu Val Asp Asp Phe Leu Leu Val Thr Pro His Leu Thr His Ala			
340	865	870	875	880
342	Lys Thr Phe Leu Arg Thr Leu Val Arg Gly Val Pro Glu Tyr Gly Cys			
343	885	890	895	
345	Val Val Asn Leu Arg Lys Thr Val Val Asn Phe Pro Val Glu Asp Glu			
346	900	905	910	
348	Ala Leu Gly Gly Thr Ala Phe Val Gln Met Pro Ala His Gly Leu Phe			
349	915	920	925	
351	Pro Trp Cys Gly Leu Leu Leu Asp Thr Arg Thr Leu Glu Val Gln Ser			
352	930	935	940	

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```

354   Asp Tyr Ser Ser Tyr Ala Arg Thr Ser Ile Arg Ala Ser Leu Thr Phe
355   945                      950                      955                      960
357   Asn Arg Gly Phe Lys Ala Gly Arg Asn Met Arg Arg Lys Leu Phe Gly
358                      965                      970                      975
360   Val Leu Arg Leu Lys Cys His Ser Leu Phe Leu Asp Leu Gln Val Asn
361                      980                      985                      990
363   Ser Leu Gln Thr Val Cys Thr Asn Ile Tyr Lys Ile Leu Leu Leu Gln
364                      995                      1000                      1005
366   Ala Tyr Arg Phe His Ala Cys Val Leu Gln Leu Pro Phe His Gln Gln
367   1010                      1015                      1020
369   Val Trp Lys Asn Pro Thr Phe Phe Leu Arg Val Ile Ser Asp Thr Ala
370   1025                      1030                      1035                      1040
372   Ser Leu Cys Tyr Ser Ile Leu Lys Ala Lys Asn Ala Gly Met Ser Leu
373                      1045                      1050                      1055
375   Gly Ala Lys Gly Ala Ala Gly Pro Leu Pro Ser Glu Ala Val Gln Trp
376   1060                      1065                      1070
378   Leu Cys His Gln Ala Phe Leu Leu Lys Leu Thr Arg His Arg Val Thr
379   1075                      1080                      1085
381   Tyr Val Pro Leu Leu Gly Ser Leu Arg Thr Ala Gln Thr Gln Leu Ser
382   1090                      1095                      1100
384   Arg Lys Leu Pro Gly Thr Thr Leu Thr Ala Leu Glu Ala Ala Ala Asn
385   1105                      1110                      1115                      1120
387   Pro Ala Leu Pro Ser Asp Phe Lys Thr Ile Leu Asp
388                      1125                      1130

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,686

DATE: 02/14/2002

TIME: 15:18:46

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\02142002\I424686.raw

L:173 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: